

## WHAT IS CLAIMED IS:

1. A heating system for a vehicle, the heating system comprising:

a heating air blower for generating a heating air stream to be introduced into the interior space of the vehicle;

a heater with a heat exchanger arrangement for heating the heating air stream being  
5 delivered by said heating air blower;

a mixing arrangement for setting an outside air/ambient air ratio of the air to be fed to said heat exchanger arrangement;

an outside temperature sensor arrangement for generating an output linked with an outside temperature; and

10 an actuating arrangement for actuating said mixing arrangement to set an outside air/ambient air ratio on the basis of an output of said outside temperature sensor arrangement.

2. A heating system in accordance with claim 1, wherein said actuating device actuates said mixing arrangement such that the outside air/ambient air ratio is lower in case of a lower outside temperature.

3. A heating system for a vehicle, the heating system comprising:

a heating air blower for generating a heating air stream to be introduced into the interior space of a vehicle;

a heater with a heat exchanger arrangement for heating the heating air stream being

5 delivered by said heating air blower;

a mixing arrangement for setting an outside air/ambient air ratio of the air to be fed into said heat exchanger arrangement;

a vehicle interior space temperature sensor arrangement for generating an output linked with the temperature of the interior space of the vehicle; and

10 an actuating arrangement for actuating said mixing arrangement for setting the outside air/ambient air ratio on the basis of the output of said vehicle interior space temperature sensor arrangement.

4. A heating system in accordance with claim 3, wherein said actuating arrangement actuates said mixing arrangement such that the outside air/ambient air ratio is lower in case of a lower temperature of the interior space of the vehicle.

5. A heating system in accordance with claim 4, comprising:

a heating air blower for generating a heating air stream to be introduced into the interior space of a vehicle;

5 a heater with a heat exchanger arrangement for heating the heating air stream being delivered by said heating air blower;

a mixing arrangement for setting an outside air/ambient air ratio of the air to be fed into said heat exchanger arrangement;

a vehicle interior space temperature sensor arrangement for generating an output linked with the temperature of the interior space of the vehicle;

10 a vehicle interior space desired temperature presetting arrangement; and  
an actuating device for actuating said mixing arrangement for setting the outside  
air/ambient air ratio on the basis of a deviation of the temperature of the interior space of the  
vehicle from the interior space desired temperature.

6. A heating system in accordance with claim 1, further comprising:

a heating air stream temperature sensor arrangement for generating an output linked with  
the temperature at which the heating air stream heated by said heater is discharged;

a vehicle interior space desired temperature presetting arrangement; and

5 a vehicle interior space temperature sensor arrangement , wherein said actuating  
arrangement is designed to set the delivery capacity of said heating air blower on the basis of an  
output of said vehicle interior space temperature sensor arrangement and the interior space  
desired temperature preset by said vehicle interior space desired temperature presetting  
arrangement and to set the heat output of said heater on the basis of the output of said heating air  
10 stream temperature sensor arrangement.

7. A heating system in accordance with claim 1, wherein said actuating arrangement  
comprises a first actuating device for actuating said heating air blower and said mixing  
arrangement as well as a second actuating device for actuating said heater, wherein said first  
actuating device has the output of said outside temperature sensor arrangement and/or of a  
5 vehicle interior space temperature sensor arrangement and/or of a vehicle interior space desired  
temperature presetting arrangement as the input variables.

8. A heating system in accordance with claim 3, further comprising:

a heating air stream temperature sensor arrangement for generating an output linked with the temperature at which the heating air stream heated by said heater is discharged; and

a vehicle interior space desired temperature presetting arrangement, wherein said actuating arrangement is designed to set the delivery capacity of said heating air blower on the basis of an output of said vehicle interior space temperature sensor arrangement and the interior space desired temperature preset by said vehicle interior space desired temperature presetting arrangement and to set the heat output of said heater on the basis of the output of said heating air stream temperature sensor arrangement.

9. A heating system in accordance with claim 3, wherein said actuating arrangement comprises a first actuating device for actuating said heating air blower and said mixing arrangement as well as a second actuating device for actuating said heater, wherein said first actuating device has the output of an outside temperature sensor arrangement and/or of said vehicle interior space temperature sensor arrangement and/or of a vehicle interior space desired temperature presetting arrangement as the input variables.

10. A heating system in accordance with claim 5, further comprising:

a heating air stream temperature sensor arrangement for generating an output linked with the temperature at which the heating air stream heated by said heater is discharged, wherein said actuating arrangement is designed to set the delivery capacity of said heating air blower on the

5 basis of an output of said vehicle interior space temperature sensor arrangement and the interior space desired temperature preset by said vehicle interior space desired temperature presetting arrangement and to set the heat output of said heater on the basis of the output of said heating air stream temperature sensor arrangement.

11. A heating system in accordance with claim 5, wherein said actuating arrangement comprises a first actuating device for actuating said heating air blower and said mixing arrangement as well as a second actuating device for actuating said heater, wherein said first actuating device has the output of an outside temperature sensor arrangement and/or of said  
5 vehicle interior space temperature sensor arrangement and/or of said vehicle interior space desired temperature presetting arrangement as the input variables.